PATENT

Claim Amendments:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-58 (Canceled).

- 59. (Original) A method of forming light colored ESD dissipative ceramics comprising the steps of:
- (a) forming a mixture comprising from about 85 to 60 vol.% Y-TZP and from about 15 to 40 vol.% ZnO; and
- (b) densifying the mixture to at least 95% of the theoretical density by a primary heat treatment.
- 60. (Previously Presented) The method of Claim 59, further comprising employing a secondary heat treatment step to increase the density to greater than 99% of theoretical density.
 - 61. (Original) A method of forming light colored ESD dissipative ceramics comprising the steps of:
 - (a) forming a mixture comprising from about 90 to 50 vol.% Y-TZP and from about 10 to 50 vol.% semi-conductive SnO₂; and
 - (b) densifying the mixture to at least 95% of the theoretical density by a primary heat treatment.
- 62. (Previously Presented) The method of Claim 61, further comprising employing a secondary heat treatment step to increase the density to greater than 99% of theoretical density.

Claims 63-77 (Canceled).

- 78. (Previously Presented) A method of forming and ESD dissipative ceramic component, comprising the steps of:
- sintering a composition comprising a base material comprising tetragonal zirconia and a resistivity modifier comprising 5 vol% to about 60 vol% of the base material, the

- resistivity modifier selected from conductive and semiconductive materials and mixtures thereof, to form a sintered body; and
- hot isostatic pressing the sintered body to form an ESD dissipative ceramic component having a volume resistivity within a rang of 10³ to 10¹¹ Ohm-cm.
- 79. (Currently Amended) A method of forming an ESD dissipative ceramic component, comprising the steps of:
- heat treating a ceramic green body to densify the green body and form a densified component, the green body comprising a base material comprising tetragonal ziconia and a resistivity modifier, the resistivity modifier being selected from the group consisting of ZnO, SnO2, LaMnO3, BaO.6Fe2O3; and
- adjusting a resistivty resistivity of the densified component by annealing the densified component.
- 80. (Canceled)
- 81. (Previously Presented) The method of claim 79, wherein the step of adjusting the resistivity is carried out by annealing to change an equilibrium density of charge carriers.
- 82. (Previously Presented) The method of claim 79, wherein heat treating is carried out by sintering.
- 83. (Previously Presented) The method of claim 82, wherein the sintering step is carried out by pressureless sintering.
- 84. (Previously Presented) The method of claim 79, wherein heat treating is carried out by sintering and hot pressing.
- 85. (Previously Presented) The method of claim 84, wherein hot pressing comprises hot isostatic pressing.

- 86. (Previously Presented) The method of claim 79, wherein heat treating is carried out at a first temperature, and annealing is carried out at a second temperature, the second temperature being less than 90% of the first temperature.
- 87. (Previously Presented) The method of claim 86, wherein the second temperature is within a range of about 560 °C to 890 °C.
- 88. (Previously Presented) The method of claim 79, wherein the resistivity is adjusted by at least 25%.